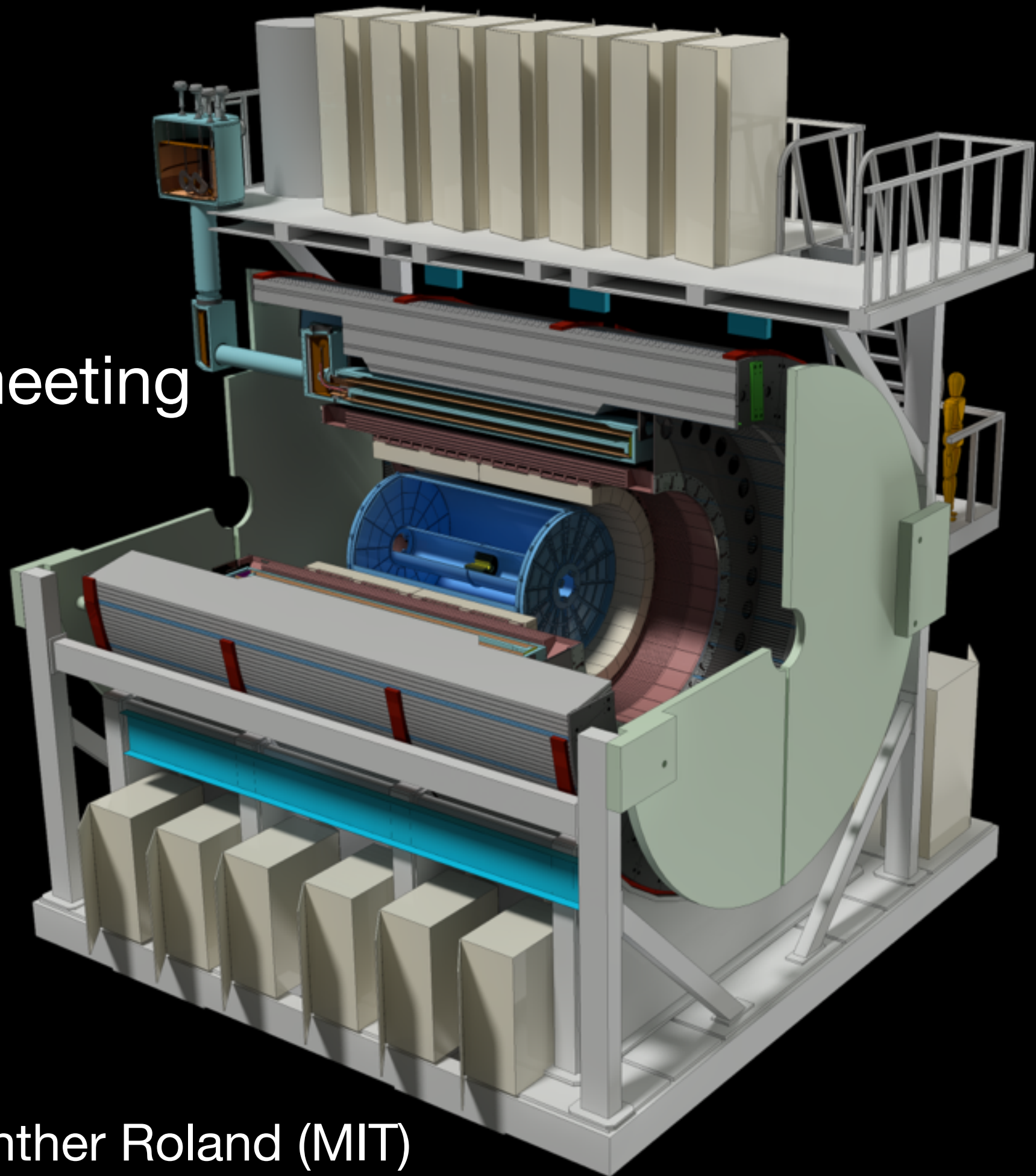


sPHENIX general meeting
Collaboration news
September 2, 2016



Dave Morrison (BNL), Gunther Roland (MIT)



**KEEP
CALM
AND
VOLUNTEER**

(to take minutes for today's meeting)

Plan for today

Friday, September 2, 2016

- | | |
|---------------|--|
| 12:00 - 12:20 | sPHENIX News 20'
Speakers: Dr. David Morrison (BNL), Prof. Gunther Roland (MIT) |
| 12:20 - 12:40 | sPHENIX Project News 20'
Speaker: John Haggerty (Brookhaven National Laboratory) |
| 12:40 - 13:00 | Tracking plots for review 20'
Speakers: Dr. Anthony Frawley (Florida State University), Dr. Michael McCumber (Los Alamos National Laboratory) |
| 13:00 - 13:20 | Update on test beam analysis/paper 20'
Speaker: Dr. Vera Loggins (University of Illinois Urbana Champaign) |
| 13:20 - 13:40 | Introduction to the cold QCD topical group 20'
Speakers: Dr. Nils Feege (Stony Brook University), Prof. Christine Aidala (Michigan) |

ALD/sPHENIX news

- Meeting with ALD Berndt Mueller and STAR and PHENIX spokespersons last Wednesday (8/24)
- Draft of RHIC news bulletin said to be imminent – timed to discuss impressions of RHIC S&T review
- BNL hosting a Diversity & Inclusion Workshop, Sept 7-8 (precise overlap with sPHENIX Tracking Review)
- Link to workshop <https://www.bnl.gov/diw2016/>
- Deadline for registration is Tuesday, September 6

Diversity & Inclusion Workshop

Energy Solutions Will Require Everyone:
Inclusion *Increases* Innovation

Hosted by Brookhaven National Laboratory
September 7-8, 2016



Motivation

This workshop is open to all Brookhaven National Laboratory employees at no cost but registration is required. It will showcase the Lab's global talent and diverse cultures to provide a greater awareness and understanding toward fostering an inclusive work environment. An inclusive work environment allows for the free exchange of ideas and multiple perspectives to enable us to solve challenging problems of national importance.

Along with the workshop, the Lab will be hosting concurrent meetings for the U.S. Department of Energy's (DOE) National Laboratory Directors' Council, Chief Human Resource Officers Community of Practice, and the Diversity & Inclusion Managers.

Workshop Speakers

- ▶ Patricia Dehmer (Deputy Director of Science Programs, DOE)
- ▶ Esther Takeuchi (Scientist, Brookhaven Lab & Distinguished Professor, Stony Brook University)
- ▶ Caroline Simard (Clayman Institute)
- ▶ Steven Robbins (S.L. Robbins & Associates)
- ▶ Rick Kittles (Professor, University of Arizona Cancer Center)
- ▶ Eric Sheppard (INCREASE)

RHIC biennial S&T review

Panel members present at review

Bolek Wyslouch (MIT)

Paul Romatschke (Colorado)

John Lewellen (LANL)

Allison Lung (JLab)

Peter Ostroumov (ANL)

Charlie Maguire (VU)

Patty McBride (FNAL)

Jehanne Gillo (DOE)

Jim Sowinski (DOE)

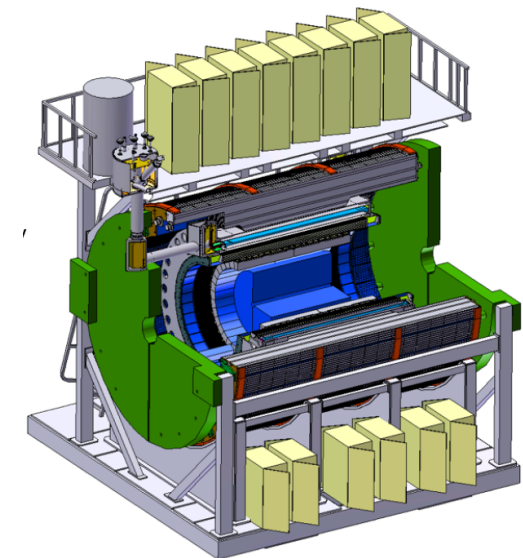
Manouchehr Farkhondeh (DOE)

Positively received talks, good questions and engagement, positive closeout, waiting for written report (DOE commits to providing reports within three months)

Several questions directed at communication and coordination between project and science collaboration – fortnightly general meetings was part of answer



The Proposed sPHENIX Project



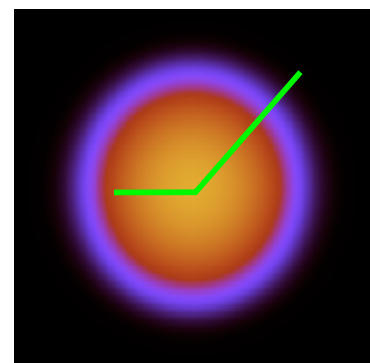
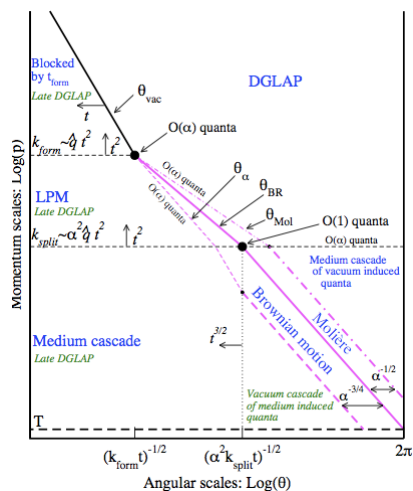
Ed

Honing language about sPHENIX science aims

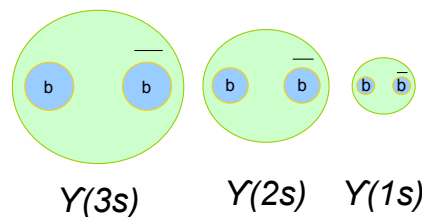
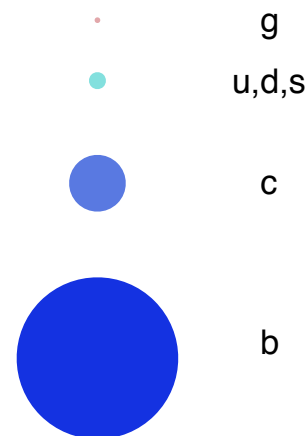
Multi-scale probes of QGP

Three key approaches to study
QGP structure at multiple scales

Jets and jet structure



Parton mass/flavor



Upsilon spectroscopy

It's a job that's never finished!

This slide from Gunther's S&T talk seemed to go over well.

Diagram of co-evolving jet and medium virtuality also works – can take time to describe.

Always need new thinking and fresh imagery!

CD-0: cause for optimism?

- In his RHIC S&T talk, Gunther made a strong point of the value to the Collaboration of a positive CD-0 decision
 - Jehanne Gillo (DOE) noted that DOE is well aware of our keen interest in getting CD-0 soon
 - Jim Sowinski (DOE) reminded everyone that CD-0 is a decision driven by a process internal to DOE
 - Jehanne made very positive comments at the closeout about the upcoming “few crazy years” we are all embarking on
- At a recent meeting with Berndt he expressed optimism about a CD-0 decision coming sooner rather than later – that’s a change from most of our previous meetings. Making concrete plans for what to do once a CD-0 decision is rendered.

sPHENIX simulations meeting

- Meets Tuesdays at 1pm ET – intended to be a central meeting for anyone and everyone working on or interested in sPHENIX physics capabilities.
- We'd like to encourage more participation!
- Next meeting agenda <https://indico.bnl.gov/conferenceDisplay.py?confId=1926>

Tuesday, 6 September 2016

13:00 - 13:20

Software updates 20'

Material:

Incoming update (coresoftware)



Incoming update (macros)



Merged Updates (coresoftware)



Merged Updates (macros)



13:20 - 13:40

Electron identification 20'

Speaker: Sasha Lebedev (ISU)

13:40 - 14:00

b-jet tagging with secondary vertex in jet 20'

Speaker: Dr. Sanghoon Lim (LANL)

14:00 - 14:20

b-jet tagging with large-DCA track counting 20'

Speaker: Dr. Haiwang Yu (New Mexico State University)

Other news

- sPHENIX Tracker review, Sept 7-8 (more in Ed's talk)
- MIT workshop, October 28-29, <https://indico.cern.ch/event/558954/>
- 3rd sPHENIX Collaboration meeting, December 15-17, 2016 at GSU – *sign up soon!*
- <https://indico.bnl.gov/conferenceDisplay.py?confId=2327>